

CP1290 12V 9Ah(20hr)



The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

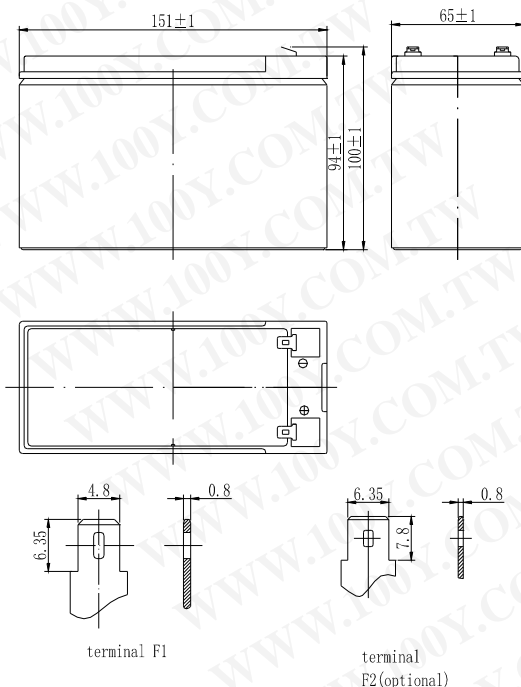
| Component | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| Raw material | Lead dioxide | Lead | ABS | ABS | Rubber | Copper | Fiberglass | Sulfuric acid |

General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

Dimensions and Weight

| | |
|--------------------------|------------|
| Length(mm / inch) | 151 / 5.94 |
| Width(mm / inch) | 65 / 2.56 |
| Height(mm / inch) | 94 / 3.70 |
| Total Height(mm / inch) | 100 / 3.94 |
| Approx. Weight(Kg / lbs) | 2.8 / 6.17 |



Performance Characteristics

| | |
|--|------------|
| Nominal Voltage | 12V |
| Number of cell | 6 |
| Design Life | 3-5 years |
| Nominal Capacity 77°F(25°C) | |
| 20 hour rate (0.45A, 10.5V) | 9Ah |
| 10 hour rate (0.82A, 10.5V) | 8.2Ah |
| 5 hour rate (1.54A, 10.5V) | 7.7Ah |
| 1 hour rate (5.8A, 9.6V) | 5.8Ah |
| Internal Resistance | |
| Fully Charged battery 77°F(25°C) | 18mOhms |
| Self-Discharge | |
| 3% of capacity declined per month at 20°C(average) | |
| Operating Temperature Range | |
| Discharge | -20~60°C |
| Charge | -10~60°C |
| Storage | -20~60°C |
| Max. Discharge Current 77°F(25°C) | 135A(5s) |
| Short Circuit Current | 450A |
| Charge Methods: Constant Voltage Charge 77°F(25°C) | |
| Cycle use | 14.5-14.9V |
| Maximum charging current | 3.6A |
| Temperature compensation | -30mV/°C |
| Standby use | 13.6-13.8V |
| Temperature compensation | -20mV/°C |

Discharge Constant Current (Amperes at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 1h | 3h | 5h | 10h | 20h |
|----------------------|------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 33.0 | 24.2 | 17.0 | 9.90 | 5.80 | 2.33 | 1.60 | 0.87 | 0.47 |
| 1.65V | 32.1 | 23.6 | 16.5 | 9.79 | 5.75 | 2.29 | 1.56 | 0.86 | 0.46 |
| 1.70V | 30.9 | 22.9 | 16.1 | 9.36 | 5.71 | 2.25 | 1.55 | 0.84 | 0.46 |
| 1.75V | 30.3 | 22.1 | 14.6 | 8.91 | 5.66 | 2.20 | 1.54 | 0.82 | 0.45 |
| 1.80V | 29.6 | 21.0 | 13.9 | 8.45 | 5.51 | 2.14 | 1.53 | 0.82 | 0.44 |

Discharge Constant Power (Watts at 77°F25°C)

| End Point Volts/Cell | 5min | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h |
|----------------------|------|-------|-------|-------|-------|------|------|------|------|
| 1.60V | 71.7 | 44.8 | 33.6 | 19.6 | 14.5 | 11.5 | 6.30 | 4.34 | 3.10 |
| 1.65V | 68.3 | 44.3 | 33.1 | 19.1 | 14.2 | 11.2 | 6.23 | 4.29 | 3.04 |
| 1.70V | 64.8 | 42.9 | 31.1 | 18.5 | 13.7 | 11 | 6.08 | 4.20 | 2.98 |
| 1.75V | 61.4 | 41.1 | 30.2 | 17.6 | 12.9 | 10.7 | 5.94 | 4.08 | 2.92 |
| 1.80V | 58.0 | 39.2 | 28.4 | 16.6 | 12.2 | 10.4 | 5.77 | 3.92 | 2.85 |

(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.

